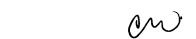




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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/123,614	07/28/1998	LEE M. MIDDLEMAN	12032 5740		
7	590 11/18/2003	EXAMINER			
DAVID A. FARAH, M.D.			RODRIGUEZ, CRIS LOIREN		
SHELDON & MAK 225 SOUTH LAKE AVENUE 9TH FLOOR			ART UNIT	PAPER NUMBER	
PASADENA, CA 91101			3763	$\sim$	
			DATE MAILED: 11/18/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

			وغص		L			
Office Action Summary		Application	n No.	Applicant(s)				
		09/123,61	4	MIDDLEMAN ET AL.				
		Examiner		Art Unit				
	•	Cris L. Ro	driguez	3763				
	MAILING DATE of this communic	ation appears on the	cov r sheet with the c	correspondence add	ress			
Period for Rep	•	D DEDLY IS SET TO	S EVRIRE & MONTH	(S) EDOM				
THE MAILII  - Extensions of after SIX (6) I  - If the period f  - If NO period f  - Failure to rep  - Any reply rec-	NED STATUTORY PERIOD FOR NG DATE OF THIS COMMUNIC. It ime may be available under the provisions of MONTHS from the mailing date of this communion reply specified above is less than thirty (30) or reply is specified above, the maximum stature by within the set or extended period for reply within the set or extended period for rep	ATION. 37 CFR 1.136(a). In no evenication. days, a reply within the statutory period will apply and will, by statute, cause the appli	nt, however, may a reply be tir tory minimum of thirty (30) day I expire SIX (6) MONTHS from ication to become ABANDONE	nely filed  s will be considered timely. the mailing date of this con D (35 U.S.C. § 133).	nmunication.			
1)⊠ Resp	onsive to communication(s) filed	on <u>03 October 2003</u>	<u>}</u> .					
2a)⊠ This	action is FINAL. 2b)	)□ This action is no	n-final.					
3)∏ Since close	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of	Claims							
4)⊠ Claim	n(s) <u>1,2,6-11,22-28,32-47 and 60</u>	-62 is/are pending ir	the application.					
4a) O	f the above claim(s) <u>3-6,12-21,23</u>	3 is/are withdrawn fr	om consideration.					
•	n(s) is/are allowed.							
•	Claim(s) <u>1,2,7-11,22,24-28,32-47 and 60-62</u> is/are rejected.							
•	n(s) is/are objected to. n(s) are subject to restriction	on and/or election re	equirement					
		on analor orocton re	qui om om					
Application Pa		in an						
,	pecification is objected to by the rawing(s) filed on is/are: a		objected to by the	Examiner.				
	cant may not request that any objecti							
	cement drawing sheet(s) including the				R 1.121(d).			
11) <u></u> The o	ath or declaration is objected to t	by the Examiner. No	te the attached Office	Action or form PT0	<b>D-152</b> .			
Priority under	35 U.S.C. §§ 119 and 120							
a)∏ All	owledgment is made of a claim fo b)☐ Some * c)☐ None of: Certified copies of the priority do			a)-(d) or (f).				
2.	Certified copies of the priority de Copies of the certified copies of application from the International	ocuments have been f the priority docume	n received in Applicat ents have been receiv		Stage			
	e attached detailed Office action	for a list of the certif	fied copies not receive					
since a 37 CFF		in the first sentence	of the specification o	r in an Application [	application) Data Sheet.			
	he translation of the foreign lang				a annaifia			
14)∐ Acknov referen	wledgment is made of a claim for ce was included in the first sente	nce of the specifica	tion or in an Application	on Data Sheet. 37 C	DFR 1.78.			
Attachment(s)								
1) Notice of Re	ferences Cited (PTO-892)		4) Interview Summary					
· <u> </u>	aftsperson's Patent Drawing Review (PT0 Disclosure Statement(s) (PTO-1449) Pap		5) Notice of Informal F 6) Other:	Patent Application (PTO-	·152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03)

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#### **DETAILED ACTION**

#### Election/Restrictions

This application contains claims 3-6,12-21, and 23 drawn to an invention nonelected with traverse in Paper No. 4. A complete reply to the final rejection must include cancelation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

# Claim Objections

- 2. Claim 32 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.
  - Claim 32 depends from canceled claim 31.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 32 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

• Claim 32, there is no antecedent basis for "the pseudoelastic material".

# Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1, 2, 11, and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Cathcart et al (US 5,681,347).

Cathcart discloses a device **10** comprising a tubular element **13** comprising a hollow tubular lumen, a deployment element (**17**,20) having an inner lumen, and a plurality of resilient anchoring members **24** attached to the distal end of the inner lumen (see fig. 4). Please note that the word "attached" means to join or connect. The word join is being used as "to put into close association or relationship" according to the Webster's II dictionary.

7. Claims 1, 2, 7, 10, 11, and 22 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Goldberg et al (US 5,152,777).

Goldberg discloses a device having a tubular element **70,72,74** with a hollow tubular lumen, a deployment element (stem **60,90**) (also considered as the guide wire set forth in claims 7, 40 and 50) having a lumen 62, and a plurality of resilient anchoring members **32A-32F** as claimed. The collar is reference numeral 38. In column 8 lines 23-66, it set forth that the deployment element(stem) has a lumen from proximal to distal end in order to introduce a guidewire or a marker solution into the body.

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8. Claims 38-40, 44 and 45 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Hayashi (5,910,144).

Hayashi discloses a prosthesis gripping system comprising a tubular element **20,26** comprising a hollow tubular lumen, a deployment element **50** (the guide wire set forth in claims 7, 40 and 50 is reference numeral 36), and a plurality of resilient anchoring members **40** as claimed. The collar is reference numeral **50**.

# Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over et al Cathcart et al in view of Hayman et al (5,267,960) and Abrams (5,492,119).

Cathcart discloses the invention substantially as claimed. However, Cathcart fails to disclose the anchoring members comprising spring steel or a pseudo elastic material such as nickel titanium alloy.

Hayman teaches an anchor 19 having arms 21 made of spring steel, and Abrams teaches a catheter apparatus comprising control wires having curved feet made of nitinol, which is a pseudo elastic material for anchoring purposes. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Cathcart et al by providing the anchoring members with the materials of Abrams and Hayman as taught old and well known in the art for anchoring purposes.

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11. Claims 8, 9, 26, and 62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al. in view of Abrams.

Goldberg discloses the invention substantially as claimed as discussed above. However, Goldberg fails to disclose the anchoring members being of a pseudo elastic material such as nickel titanium alloy, or the anchoring members having an oval cross-section.

Abrams teaches a catheter apparatus comprising control wires having curved feet for anchoring purposes, made of nitinol, which is a pseudo elastic material. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Goldberg by providing the anchoring members with the materials of Abrams as taught old and well known in the art for anchoring purposes. Also, the oval cross-section is an obvious variation from the circular cross-section.

12. Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al in view of Lefebvre (US 5,938,683).

Goldberg discloses the invention substantially as claimed as discussed above. However, Goldberg fails to disclose the anchoring members having a substantially flat top portion.

Lefebvre teaches a filter (anchoring member) comprising a substantially flat top portion for anchoring in a blood vessel (see figure 1). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Goldberg by providing the anchoring members with the substantially flat top portion as

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shown by Lefebvre to anchor the anchoring members to the passageway of a blood vessel and as an obvious design alternative.

13. Claims 24, 25, 28, 33-36, 60and 61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al in view of Hayashi.

Goldberg discloses a device having a tubular element **70,72,74** with a hollow tubular lumen, a deployment element **60,90,92** (also considered as the guide wire set forth in claims 7, 40 and 50), and a plurality of resilient anchoring members **32A-32F** as claimed. The collar is reference numeral **38**. However, Goldberg fails to disclose the anchoring members being attached within the wall of the deployment means inner lumen, or attached to the inner surface of the wall of the deployment means inner lumen, and the anchoring members having a substantially oval cross-section.

Hayashi teaches a device with anchoring members 40 being attached to the inner surface of the wall of the deployment element **50** inner lumen. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Goldberg by attaching the anchoring members to the inner surface of the wall of the deployment element inner lumen as taught old and well known by Hayashi as an alternative design of connection between two segments. Since Applicant's disclosure lacks criticality for attaching the anchoring members within the wall of the deployment means, the Examiner has considered this feature as a mere modification or variation from Goldberg (over the outer surface of the deployment means) and Hayashi (in the inside surface of the deployment means) connections. Also, the oval cross-section is an obvious variation from the circular cross-section.

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14. Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg in view of Hayashi as applied to claim 28 above, and further in view of Abrams.

Goldberg/Hayashi discloses the invention substantially as claimed as discussed above. However, Goldberg/Hayashi fails to disclose the anchoring members comprising a pseudo elastic material such as nickel titanium alloy.

Abrams teaches a catheter apparatus comprising control wires having curved feet made of nitinol, which is a pseudo elastic material for anchoring purposes. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Goldberg in view of Hayashi by providing the anchoring members with the materials of Abrams as taught old and well known in the art for anchoring purposes.

15. Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al in view of Hayashi as applied to claim 28 above, and further in view of Lefebvre.

Goldberg/Hayashi discloses the invention substantially as claimed as discussed supra. However, Goldberg/Hayashi fails disclose the anchoring members having a substantially flat top portion.

Lefebvre teaches a filter (anchoring member) having a substantially flat top portion for anchoring purposes in a blood vessel (see figure 1). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Goldberg/Hayashi by providing the anchoring members with the substantially flat

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top portion of Lefebvre to anchor the anchoring members to the passageway of a blood vessel and as an obvious design alternative.

16. Claims 41- 43 and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi in view of Abrams and Hayman et al.

Hayashi discloses the invention substantially as claimed as discussed above.

However, Hayashi fails to disclose the anchoring members being of a pseudo elastic material such as nickel titanium alloy or made of spring steel, or the anchoring members having a substantially oval cross-section.

Abrams teaches a catheter apparatus having control wires having curved feet made of nitinol, which is a pseudo elastic material, and Hayman teaches an anchor 19 having arms 21 made of spring steel for anchoring purposes. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Hayashi by providing the anchoring members with the materials of Abrams and Hayman as taught old and well known in the art for anchoring purposes. Also, the oval cross-section is an obvious variation from the circular-cross section.

17. Claim 47 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi in view of Lefebvre.

Hayashi discloses the invention substantially as claimed as discussed above. However, Hayashi fails to disclose the anchoring members having a substantially flat top portion.

Lefebvre teaches a filter (anchoring member) having a substantially flat top portion for anchoring purposes in a blood vessel (see figure 1). It would have been

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obvious to one having ordinary skill in the art at the time the invention was made to modify Hayashi by providing the anchoring members with the substantially flat top portion of Lefebvre to anchor the anchoring members to the passageway of a blood vessel and as an obvious design alternative.

#### Response to Arguments

- 18. Applicant's arguments filed May 28, 2003 have been fully considered but they are not persuasive.
- 19. In regards to Applicants arguments that Cathcart does not teach or suggest "a plurality of resilient anchoring members <u>attached</u> to the distal end of the inner lumen.", this is not found persuasive. The examiner has stated that the word "attached" has several definitions such as to join or connect, to bring into an association, to assign temporarily. The word attached does not particularly means permanently bonded or affixed to an element. The examiner suggests the use of permanently attached in order to overcome the reference, or any other synonym that can get around the abovementioned definition. Furthermore, Applicants argument that Cathcart does not teach or suggest "each anchoring member [is] reversibly moveable by deployment element between a first position and a second position" is not persuasive. In Cathcart, figure 1 shows that the deployment element 17 is in a first position (at least a portion of each anchoring member is retracted within the outer lumen), and a second position in figure 5 (at least a portion of each anchoring member is deployed exteriorly to the outer lumen so as to engage the inner surface of a passageway. Therefore, Cathcart discloses the

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first and second position as claimed. Further, the independent claims do not set forth a means for pulling the deployable device back inside of the catheter.

- In regards to applicant's arguments that Goldberg does not teach an inner lumen 20. having a bore extending completely through the inner lumen, the examiner directs applicant's attention to Col. 8 lines 23-66. Lumen 62 extends from proximal (out of the patient) to distal end (inside the body).
- In regards to applicant's arguments about Hayashi's device, it has all the 21. elements as claimed and is capable of temporarily anchoring a passageway, as discussed in the rejection abovementioned.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in 22. this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cris L. Rodriguez whose telephone number is (703) 308-2194. The examiner can normally be reached on 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on (703) 308-3552. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

November 13, 2003

Cris L. Rodriguez Examiner

Art Unit 3763

BRIAN L. CASLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700